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93.5.28 (1)  
T. NELSON

THE MOST  
FUNDAMENTAL TOOL  
OF HUMAN THOUGHT

THE DEEP INTERCOMPARISON SYSTEM

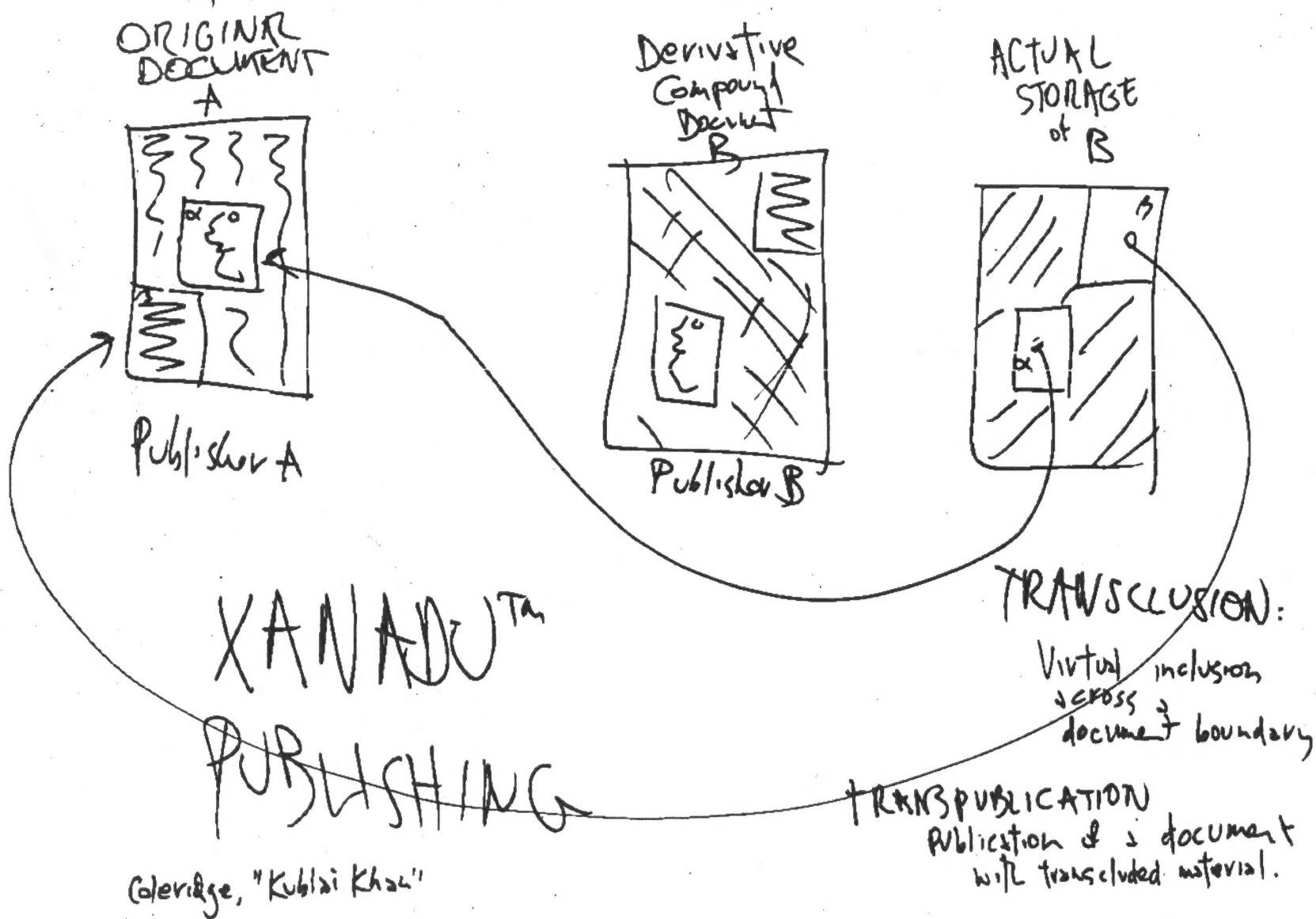
Transclusive<sup>v</sup> Multimedia Editing System  
Parallel

AKIRA KUROSAWA

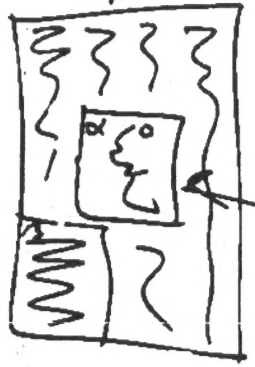
HYPERTEXT

non-sequential writing

HYPERMEDIA non-sequential  
presentations  
INTERACTIVE PRESENTATION

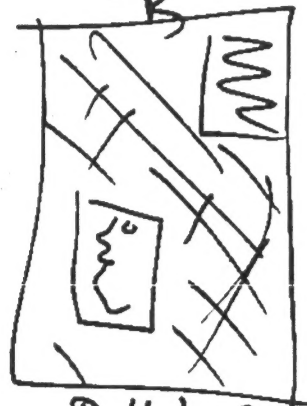


ORIGINAL  
DOCUMENT  
A



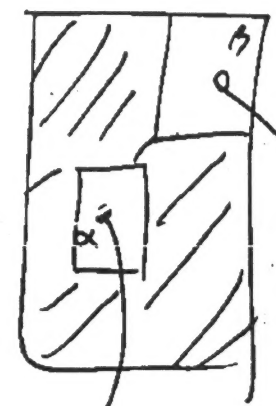
Publisher A

Derivative  
Compound  
Document  
B



Publisher B

ACTUAL  
STORAGE  
of B



XANADU™  
PUBLISHING

Coteridge, "Kublai Khan"

TRANSLUCION:

Virtual inclusion  
across  
document boundary

TRANSPUBLICATION

Publication of a document  
with transcluded material.

1. Hypertext & Hypermedia  
as CREATED WORKS
2. A network of feeder computers  
— DISTRIBUTED SERVERS  
for RANDOM BROWSING & DELIVERY  
of PARTIAL DOCUMENTS & OBJECTS  
sending for only THE NEXT PIECE
3. AUTOMATIC ROYALTY PER BYTE  
Every document has a cash register  
User automatically pays royalty to publisher + delivery fees
4. FREEDOM TO QUOTE  
by TRANSCCLUSION & TRANSPUBLICATION
5. FRANCHISED NETWORK, like McDonald's.
6. THE MOST FUND. TOOL OF HUMAN THOUGHT: THE DEEP INTERCOMPARISON SYSTEM.

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Douglas C. Engelbart.

"The Augmentation  
of  
Human Intellect."

Word processing  
~~Outline processing~~  
The mouse

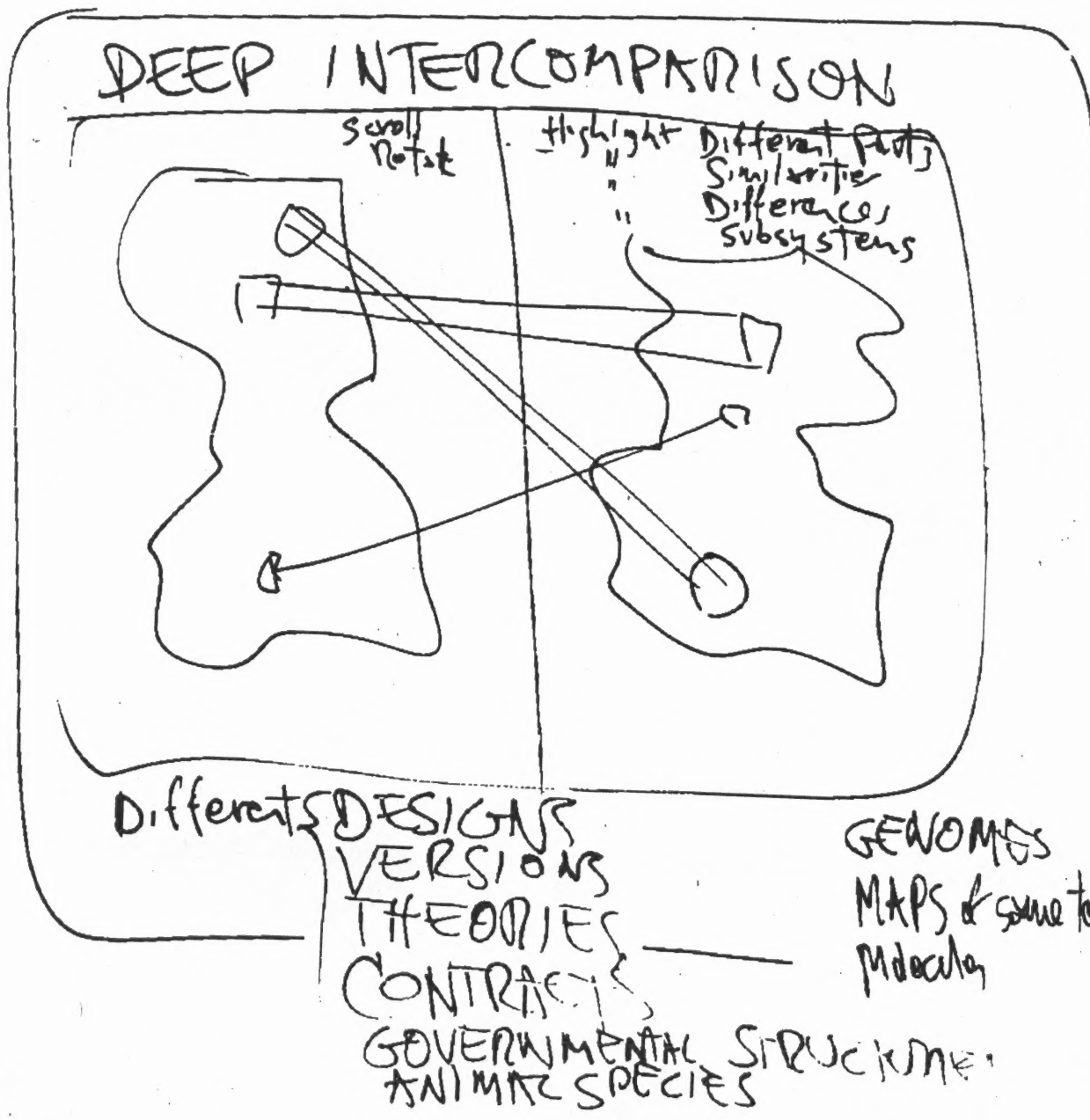
Multiple windows on a screen

Electronic mail

Groupware.

Chord keyboard.

1945 - "As We May Think" - Vannevar Bush



DISCONNECTED  
FILES  
DISCONNECTED  
WINDOWS  
for Deep  
Interactive  
Intercomparison

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# KERNEL MECHANISMS

for interactive browsing & delivery  
of

Transclusive hypertext

WITH DEEP INTERCOMPARISON

(KERNEL MECHANISM MAY BE MORE COMPLEX TO UNDERSTAND. Example=)

7

Deductive Logic

Syllogisms & Sorites

Since ~1890, Frege & Russell

"or"

"not"

"implication"



Shetter  
stroke function

MORE  
COMPACT

HARDER  
TO UNDERSTAND

XANADU  
HEAVY

1979+ Roger Gregory, Mark S. Miller  
1983+ Xanadu Operating Company  
1988-1992 Sponsored by Autodesk

1993 sponsored by Memex, Inc.

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## SERVER FOR INTERCONNECTED STRUCTURES

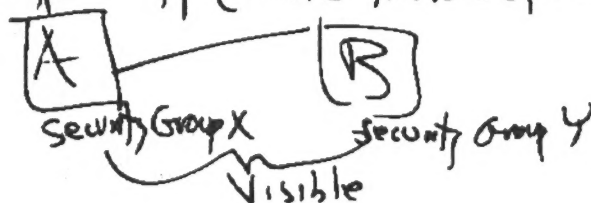
Transclusion

Link types (extensible forever)

Arbitrary Dimensionality

Integer X REAL X ...

High-Power <sup>Joint</sup> Security <sup>(not Hoisting point)</sup> (visible links between security group)

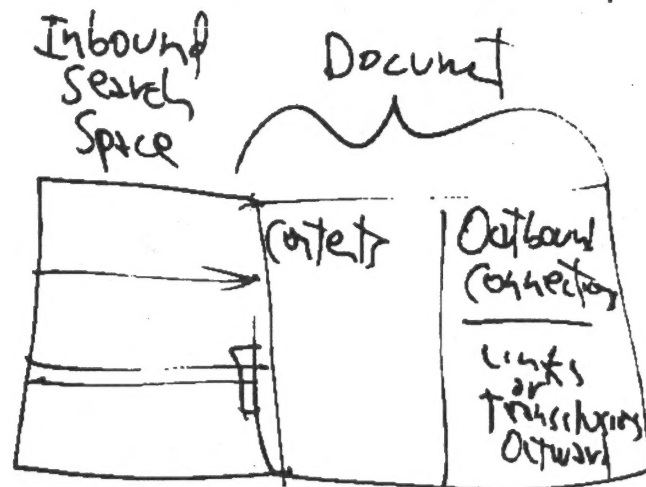


1994?

XANADU  
LIGHT  
(Nelson, 1992)

Relational databases, distributed

Royalty  
Transpublication



NOT  
OWNED  
BY THIS  
PUBLISHED

# VIRTUALITY

Opposite of reality.

~~FUNCTIONAL~~

①

CONCEPTUAL STRUCTURE

Should be UNIFIED

CAR: left, right, stop, start

MOVIE: story

②

FEEL

Should be excellently DETAILED

CAR: color, the smell, cushions, handling, appearance

MOVIE: Atmosphere, color, suspense, music

~~user-friendly~~

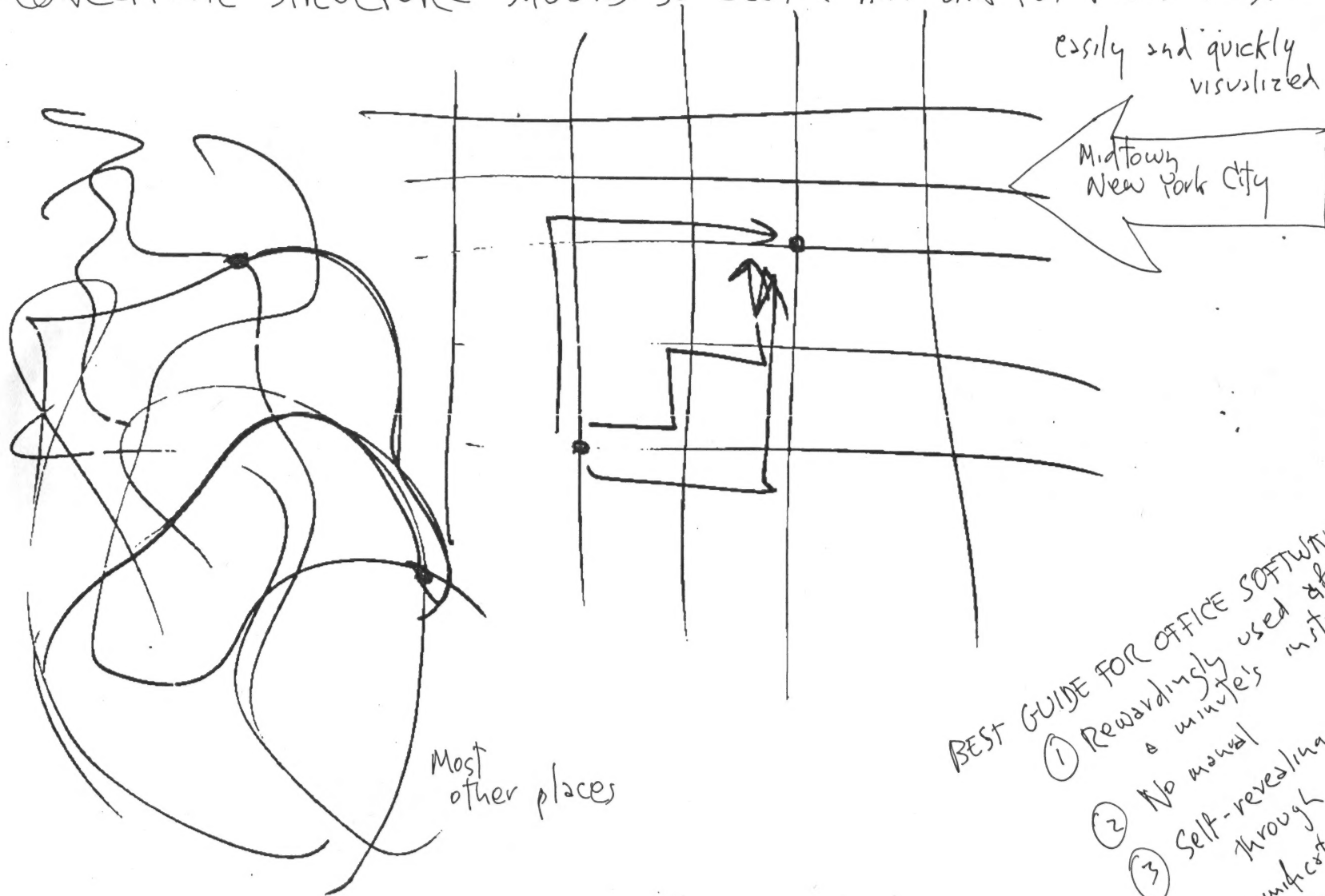
~~me/players~~

\*"self-revealing"  
(Klaus Landberg) —  
details, learned gradually,  
fit in with first impression.

CONCEPTUAL STRUCTURE SHOULD BE CLEAR AND EXACTLY PRINCIPLED—

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easily and quickly  
visualized and imagined.



Most  
other places

- BEST GUIDE FOR OFFICE SOFTWARE: Pac-Man.
- ① Rewardingly used after a minute's instruction
  - ② No manual
  - ③ Self-revealing through exploration
  - ④ Ramifications are discovered, fit in with earlier understanding.
  - ⑤ Colorful, good sound, very quick response.
- FEEL: ⑤